

## List of Items

### 1. Dynamometer

Magtrol model HD-700-1 or equal

Part number 006329 or equal

Quantity required 2

- Brake cooling is provided by convection
- braking torque developed at any speed point, including low speed and stall conditions ("0" rpm)
- Max torque 400 oz-in
- Nominal Input inertia  $5.51 \times 10^{-4}$  lb-ft-s<sup>2</sup>
- Torque ranges 100 oz-in, 200 oz-in, 400 oz-in
- Hysteresis brake control 80 ohms and 0.350 amps
- Maximum power rating 650 watts
- Shaft height 5.875 inches
- Shaft diameter 0.3745 in / 0.3750 in
- Maximum speed 10,000 rpm
- Brake cooling method convection
- Encoder option for speed sensing; min 60 counts per revolution
- Mating connectors and/or Cables for brake and speed sensing
- SIZE envelop 10" wide x 12" height x 20" long

### 2. Dynamometer

Magtrol model HD-500-1 or equal

Part number 006303 or equal

Quantity required 3

- Brake cooling is provided by convection
- braking torque developed at any speed point, including low speed and stall conditions ("0" rpm)
- Max torque 100 oz-in
- Nominal Input inertia  $8.05 \times 10^{-5}$  lb-ft-s<sup>2</sup>
- Torque ranges 25 oz-in, 50 oz-in, 100 oz-in
- Hysteresis brake control 120 ohms and 0.233 amps
- Maximum power rating 375 watts
- Shaft height 4.00 inches
- Shaft diameter 0.4995 in / 0.5000 in
- Maximum speed 15,000 rpm
- Brake cooling method convection
- Encoder option for speed sensing; minimum 60 counts per revolution
- Mating connectors and/or Cables for brake and speed sensing
- SIZE envelop 7" wide x 8.5" height x 15.5" long

**3. Current regulated power supply to control the torque of the above listed dynamometers**

Magtrol model 5210-2 or equal

Part number 003313 or equal

Quantity required 5

- Must be compatible with items I and II above
- Three current ranges 0 to 200 mA; 0 to 500 mA; 0 to 1000 mA
- Current regulation +/-1% full scale
- Brake control 10 turn potentiometer (internal) or 0-5VDC input external
- Voltage requirements 120/240 VAC 50/60 HZ

**4. Torque, Speed, Power Display for the above listed Dynamometers**

Magtrol model 3410 or equal

Part Number 006350 or equal

Required 5